

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

|  |   |                          |                  |
|--|---|--------------------------|------------------|
| Substitute for form 1449A/PTO  |   | <i>Complete If Known</i> |                  |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><i>(use as many sheets as necessary)</i> |   | Application Number       |                  |
|  |   | Filing Date              |                  |
|  |   | First Named Inventor     | Manfred Albrecht |
|  |   | Art Unit                 |                  |
|  |   | Examiner Name            |                  |
| Sheet  | 1 | of                       | 2                |
|  |   | Attorney Docket Number   |                  |

U.S. PATENT DOCUMENTS

## **FOREIGN PATENT DOCUMENTS**

|                       |   |                    |         |
|-----------------------|---|--------------------|---------|
| Examiner<br>Signature |  | Date<br>Considered | 2/14/05 |
|-----------------------|---|--------------------|---------|

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

2

of

| Complete If Known      |                  |
|------------------------|------------------|
| Application Number     |                  |
| Filing Date            |                  |
| First Named Inventor   | Manfred Albrecht |
| Group Art Unit         |                  |
| Examiner Name          |                  |
| Attorney Docket Number | HSJ920030214US1  |

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T <sup>2</sup> |
|--------------------|-----------------------|--|----------------|
| dm                 |                       | R. L. White et al., "Patterned Media: A Viable Route to 50 Gbit/in <sup>2</sup> and Up for Magnetic Recording?", IEEE Transactions on Magnetics, Vol. 33, No. 1, January 1997, 990-995   |                |
| dm                 |                       | C. Chappert, et al., "Planar Patterned Magnetic Media Obtained by Ion Irradiation," Science, Vol. 280, June 19, 1998, pp. 1919-922   |                |
| dm                 |                       | E. Eleftheriou et al., "Millipede-A MEMS-Based Scanning-Probe Data-Storage System", IEEE Transactions on Magnetics, Vol. 39, No. 2, March 2003, pp.938-945   |                |
| dm                 |                       | M. Kleiber et al., "Magnetization switching of submicrometer Co dots induced by a magnetic force microscope tip", Phys Rev B, Vol. 58, No. 9, 1 September 1998, pp. 5563-5567  |                |
| dm                 |                       | J. Lohau et al. "Writing and reading perpendicular magnetic recording media patterned by a focused ion beam", Appl Phys Lett, Vol. 78, No. 7, 12 February 2001, pp. 990-992  |                |
| dm                 |                       | B. Cui et al. "Perpendicular quantized magnetic disks with 45 Gbits on a 4x4 cm <sup>2</sup> area", J Appl Phys, Vol. 85, No. 8, 15 April 1999, pp. 5534-5536  |                |
| dm                 |                       | Haginoya C. et al., "Thermomagnetic writing on 29 Gbit/in.(2) patterned magnetic media", APPL PHYS LETT 75 (20): 3159-3161 NOV 15 1999   |                |
| dm                 |                       | Castano F. et al., "Magnetic force microscopy and x-ray scattering study of 70x550 nm(2) pseudo-spin-valve nanomagnets", J APPL PHYS 93 (10): 7927-7929 Part 3 MAY 15 2003   |                |
| dm                 |                       | Todorovic M., "Writing and reading of single magnetic domain per bit perpendicular patterned media", APPL PHYS LETT 74 (17): 2516-2518 APR 26 1999   |                |
| dm                 |                       | Ross C., "Patterned magnetic recording media", ANNU REV MATER RES 31: 203-235 2001   |                |
| dm                 |                       | A. Dietzel et al., "Ion Projection Direct Structuring for Patterning of Magnetic Media", IEEE Transactions on Magnetics, Vol. 38, No. 5, September 2002, pp. 1952-195  |                |

Examiner Signature

Date Considered

2/14/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.